

Applicant : R. Scott Repp and Pamela M. Stallman
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Page 20, line 2:

After "No. 898,094, filed June 12, 1992," please insert --now issued as

a5 United States Patent No. 5,443,673,--.

Page 20, line 3:

After "No. ~~1897~~7,764, filed June 12, 1992," please insert --now issued as

a6 United States Patent No. 5,331,784,--.

Page 20, line 7:

After "filed March 5, 1993," please insert --now issued as United

a6 States Patent No. 5,544,458,--.

Page 24, lines 4-16:

Please delete the existing Abstract and insert the following therefor:

a7 --An articulated window panel for vehicles includes a glass sheet, a hinge or a latch mounting area on the inner surface of the sheet, and a hinge or a latch bonded to the hinge or latch mounting area by an adhesive such that there is no exposure of the hinge or latch on the outer surface of the glass sheet. The panel is preferably fitted in a generally vertical window opening of the vehicle such that the panel forms one of a side window, rear window, or lift gate window. The bonded hinge or latch resists failure due to severe vibration and extreme climatic conditions. A substantially opaque coating may be used between the hinge or latch and the glass sheet to aid in hiding those items from view from the outer sheet surface.--

IN THE CLAIMS:

Please cancel original claim 1 without prejudice.

a8 Please add new claims 2-32 as follows prior to examination and prior to calculation of the filing fee:

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cont.

An articulated window panel suitable for use in a vehicle comprising:

- a glass sheet having inner and outer surfaces terminating in a peripheral edge defining a shape to fit within a window opening of the vehicle;
- a hinge mounting area on said inner surface of said glass sheet;
- a hinge bonded to said hinge mounting area and hingedly securing said glass sheet for movement between open and closed positions;
- said glass sheet having a surface area of at least 250 square inches;
- an adhesive between said hinge mounting area and said hinge, said adhesive forming a joint bonding said hinge to said hinge mounting area such that there is no exposure of said hinge on said outer surface of said glass sheet;
- said window panel adapted for mounting on the vehicle such that when fitted within a generally vertical window opening of the vehicle, said glass sheet will be generally vertically mounted and will be at least one of a side window, rear window, and lift gate window of the vehicle; said joint supporting the weight of said glass sheet without failure in a generally vertical position when subjected to severe vibration and extreme climatic conditions when mounted and used in the generally vertical vehicle window opening.

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The articulated window panel of claim 2 including a substantially opaque coating on a predetermined portion of said inner sheet surface, said opaque coating being included on said hinge mounting area with said hinge bonded to said opaque coating; said adhesive positioned between said opaque coating and said hinge, whereby said hinge, when

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bonded to said hinge mounting area, is substantially hidden from view from said outer surface of said glass sheet by said opaque coating.

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cont.*

The articulated window panel of claim ~~3~~², wherein said adhesive is selected from the group consisting essentially of: moisture-activated adhesives, thermally-activated adhesives, chemically-activated adhesives, aerobically-cured adhesives, anaerobically-cured adhesives, and radiation-cured adhesives.

sub 3

The articulated window panel of claim 3 further including an adhesion-promoting compound between said opaque coating and said adhesive bonding said hinge to said glass sheet.

The articulated window panel of claim ~~5~~⁴ wherein said adhesive is a moisture activated adhesive.

The articulated window panel of claim ~~5~~⁴ wherein said adhesive is a thermally activated adhesive.

The articulated window panel of claim ~~5~~⁴ wherein said adhesive is a chemically activated adhesive.

The articulated window panel of claim ~~5~~⁴ wherein said adhesive comprises an activated adhesive.

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The articulated window panel of claim 3 wherein said hinge has at least one projection for spacing said hinge from said opaque coating, said adhesive between said opaque coating and said hinge having a thickness defined by said projection.

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The articulated window panel of claim 2 wherein said adhesive is a moisture activated adhesive.

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The articulated window panel of claim 2 wherein said adhesive is a thermally activated adhesive.

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The articulated window panel of claim 2 wherein said adhesive is a chemically activated adhesive.

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The articulated window panel of claim 2 wherein said hinge is formed from one of a metal, plastic and composite material.

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The articulated window panel of claim 2 wherein said hinge includes at least one perforation therethrough for access to said adhesive and for providing a mechanical bonding surface for said adhesive.

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The articulated window panel of claim 13 wherein said hinge is formed from one of metal, plastic and composite material.

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As Cont.

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The articulated window panel of claim ~~1~~ wherein said hinge mounting area is no greater than about 1.6% of said outer surface area of said sheet.

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The articulated window panel of claim 2 wherein said hinge has a bonding area of at least two square inches.

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The articulated window panel of claim 18 wherein said hinge has an aspect ratio of at least one.

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A articulated window panel suitable for securement in a window opening of a vehicle by at least one hinge and a latch, said panel comprising:

a glass sheet having inner and outer surfaces terminating in a peripheral edge defining a shape to fit within a window opening of the vehicle;

a latch mounting area on said inner surface of said glass sheet;

a latch bonded to said latch mounting area and adapted to secure the articulated window panel in open and closed positions;

said glass sheet having a surface area of at least 250 square inches;

an adhesive between said latch mounting area and said latch, said adhesive forming a joint bonding said latch to said latch mounting area such that there is no exposure of said latch on said outer surface of said glass sheet;

said window panel adapted for mounting on the vehicle such that when fitted within a generally vertical window opening of the vehicle, said glass sheet will be generally

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AS
cont.

vertically mounted and will be at least one of a side window, rear window, and lift gate window of the vehicle; said joint supporting the weight of said glass sheet without failure in a generally vertical position when subjected to severe vibration and extreme climatic conditions when said panel is mounted and used in the generally vertical vehicle window opening.

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The articulated window assembly of claim 19 including a substantially opaque coating on a predetermined portion of said inner area with said latch bonded to said opaque coating; said adhesive positioned between said opaque coating and said latch, whereby said latch, when bonded to said latch mounting area, is substantially hidden from view from said outer surface of said glass sheet by said opaque coating.

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The hinged window assembly of claim ~~21~~^{19, 20}, wherein said adhesive is selected from the group consisting essentially of: moisture-activated adhesives, thermally-activated adhesives, chemically-activated adhesives, aerobically-cured adhesives, anaerobically-cured adhesives, and radiation-cured adhesives.

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The hinged window assembly of claim 21 further including an adhesion-promoting compound between said opaque coating and said adhesive bonding said latch to said glass sheet.

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The hinged window assembly of claim ~~23~~^{21, 22} wherein said adhesive is a moisture activated adhesive.

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The hinged window assembly of claim ~~23~~ wherein said adhesive is a thermally activated adhesive.

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The hinged window assembly of claim ~~23~~ wherein said adhesive is a chemically activated adhesive.

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The hinged window assembly of claim ~~23~~ wherein said adhesive comprises an activated adhesive.

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The hinged window assembly of claim 20 wherein said latch has at least one projection for spacing said latch from said opaque coating, said adhesive between said opaque coating and said latch having a thickness defined by said projection.

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The hinged window assembly of claim ~~20~~ wherein said adhesive is a moisture activated adhesive.

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The hinged window assembly of claim ~~20~~ wherein said adhesive is a thermally activated adhesive.

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The hinged window assembly of claim ~~20~~ wherein said adhesive is a chemically activated adhesive.